PREWIRED BAYS (19-INCH)

OPTION SELECTION, INSTALLATION AND PRETEST

This Section provides procedures to install, select options, and pretest the D448 11 ft 6 in. (600274-800), 9 ft (600275-800), and 7 ft (600276-800) prewired bays (19-inch).

Whenever this Section is reissued, the reasons for reissue will be listed in this paragraph.

Option selection consists of selecting different strapping options on the multiplex shelf backplane and fuse alarm and distribution panel (FADP). Installation consists of physically mounting the bay in a central office (C.O.) and making all external wiring connections. Testing consists of checking voltages on input battery and 20-Hz ringing for the proper connection and voltage levels.

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CHART 1

INSPECTION

APPARATUS:

None

STEP	PROCEDURE
1	Remove equipment from shipping carton(s).
2	Perform an inventory to verify that all equipment listed on packing list is present.
3	Inspect the equipment for shipping damage. Report any damage to carrier immediately.

CHART 2

PHYSICAL INSTALLATION

APPARATUS:

1—Drill, 1/2-inch

1—9/16-inch cement drill bit

Standard hand tools as required (see Section ITTR-18-400)

STEP	PROCEDURE
1	Using a 9/16-inch drill bit, drill required mounting holes (Fig. 1). Drill holes 1.6 inches deep.
2	Position bay over mounting holes.
3	Secure bay to floor (Fig. 2) using hardware supplied in cardboard box (ITT Part No. 600133-658-001).
4	Secure top of 9 ft or 11 ft 6 in. bay to overhead support (Fig. 3) using appropriate hardware (locally supplied).

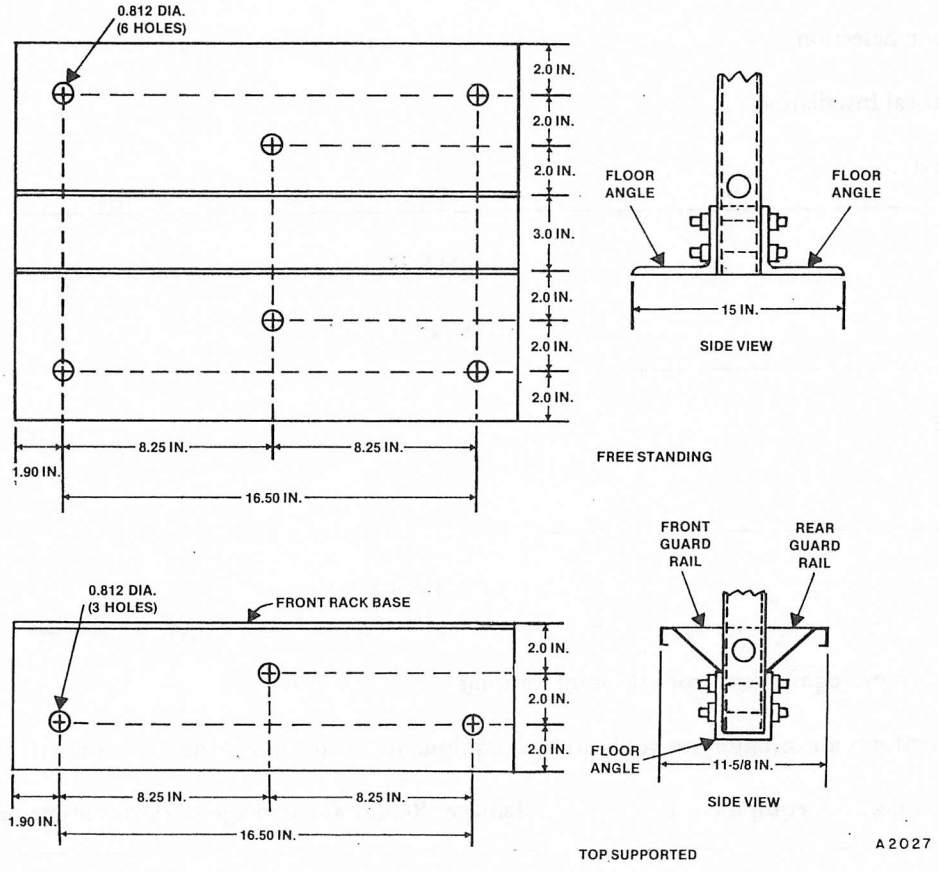

Fig. 1—Floor Mounting Diagram

CHART 2 (CONT)

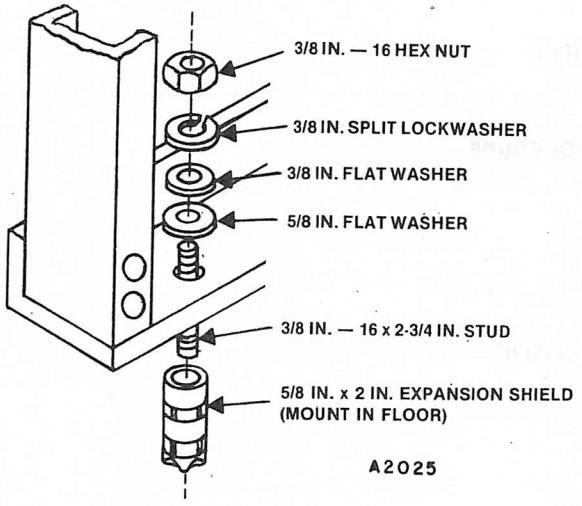
3/8 IN. — 16 HEX NUT
3/8 IN. SPLIT LOCKWASHER
3/8 IN. FLAT WASHER
5/8 IN. FLAT WASHER
3/8 IN. — 16 x 2-3/4 IN. STUD
5/8 IN. x 2 IN. EXPANSION SHIELD
(MOUNT IN FLOOR)
A2025

Fig. 2—Floor Mounting Detail

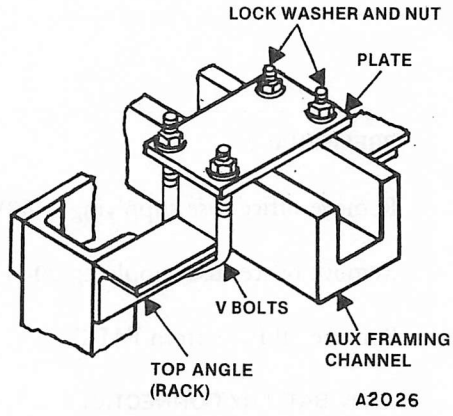

Fig. 3—Overhead Mounting Diagram
(Securing Top Angle to Auxiliary Framing)

CHART 3

OPTION SELECTION

APPARATUS:

None

STEP	PROCEDURE
	Note: Option selection consists of selecting different strapping options on the multiplex shelf backplane.
1	For information on multiplex shelf option selection, refer to Section ITTR-18-406, Chart 3.

CHART 4

ELECTRICAL INSTALLATION

APPARATUS:

Standard hand tools as required (see Section ITTR-18-400)

STEP	PROCEDURE
	PRELIMINARY
1	Remove office fuse supplying – 48V office battery to FADP.
2	Remove office fuse supplying 20-Hz ringing to FADP.
3	Remove all fuses from FADP.
	– 48V BATTERY CONNECTION
4	Connect office ground to TB4-2 using stranded 6AWG or 4AWG wire.
5	Connect – 48V office supply to TB6-1 using stranded 6AWG or 4AWG wire.
	20-Hz NEGATIVE SUPERIMPOSED RINGING CONNECTION
6	Connect 20-Hz ringing supply to the following pins on FADP using ABAM-type cable or 24AWG solid twisted shielded pair cable (ITT Part No. 600015-100-241 or equivalent): (a) 20-Hz to TB3-14 (b) Ringing ground to TB3-15 (c) Shield to TB3-13
	DS1 (T1 HF) CONNECTIONS (MODE 3 ONLY)
	Note: When using twisted shielded cable, terminate shield at only one end to avoid ground loop and attendant noise problems. Either end of shield may be left *floating* according to local company operating practices.
7	Connect DS1 (T1 HF) pairs to TB1 on FADP as shown in Fig. 4 using ABAM-type cable or 24AWG solid twisted shielded pair cable (ITT Part No. 600015-100-241 or equivalent).
	DS1C (T1C HF) CONNECTIONS (MODES 1 AND 2 ONLY)
	Note: Installation of this cable is recommended when Mode 3 operation is being used if other modes are present in the office, future plans call for change out to another mode, or T1C tie points exist.
8	Connect DS1C (T1C HF) pairs to the DS1C connections on the backplane of the multiplex shelf as shown in Fig. 5 using ABAM-type cable or 24AWG solid twisted shielded pair cable (ITT Part No. 600015-100-241 or equivalent).

CHART 4 (CONT)

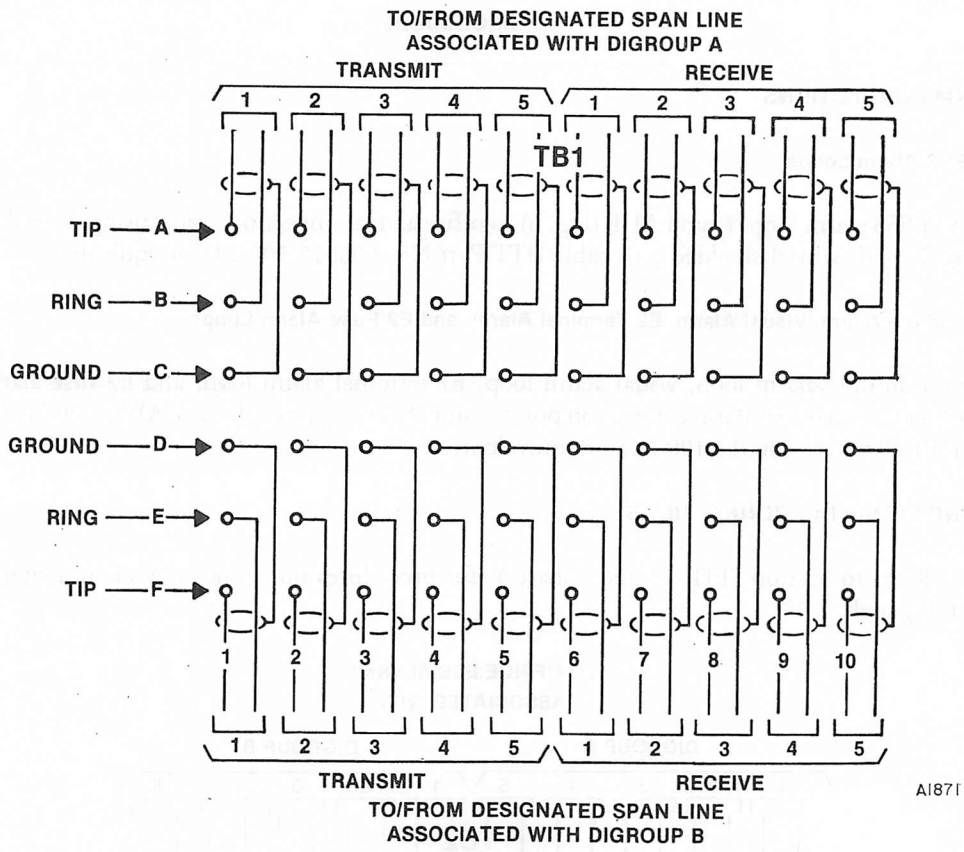

Fig. 4—DS1 Transmit and Receive Connections from FADP to Span Lines

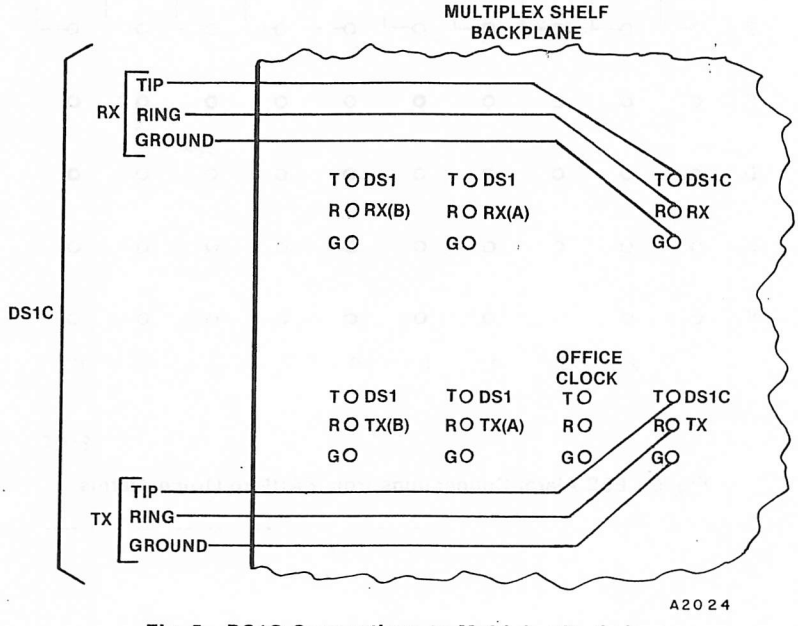

Fig. 5—DS1C Connections to Multiplex Backplane

CHART 4 (CONT)

STEP	PROCEDURE

ALARM CONNECTIONS

A. ESS Alarm Loops

9 Connect ESS alarm loops from FADP (Fig. 6) to office alarm connection points using ABAM-type cable or 24AWG solid twisted shielded pair cable (ITT Part No. 600015-100-241 or equivalent).

B. Audible Alarm, Visual Alarm, E2 Terminal Alarm, and E2 Fuse Alarm Loops

10 Connect audible alarm loop, visual alarm loop, E2 terminal alarm loop, and E2 fuse alarm loop from FADP (Fig. 7) to office alarm connection points using ABAM-type cable or 24AWG solid twisted shielded pair (ITT Part No. 600015-100-241 or equivalent).

VF AND SIGNALING CONNECTIONS

Note: Refer to Section ITTR-18-406, Chart 4, for procedures on connecting VF and signaling to each multiplex shelf.

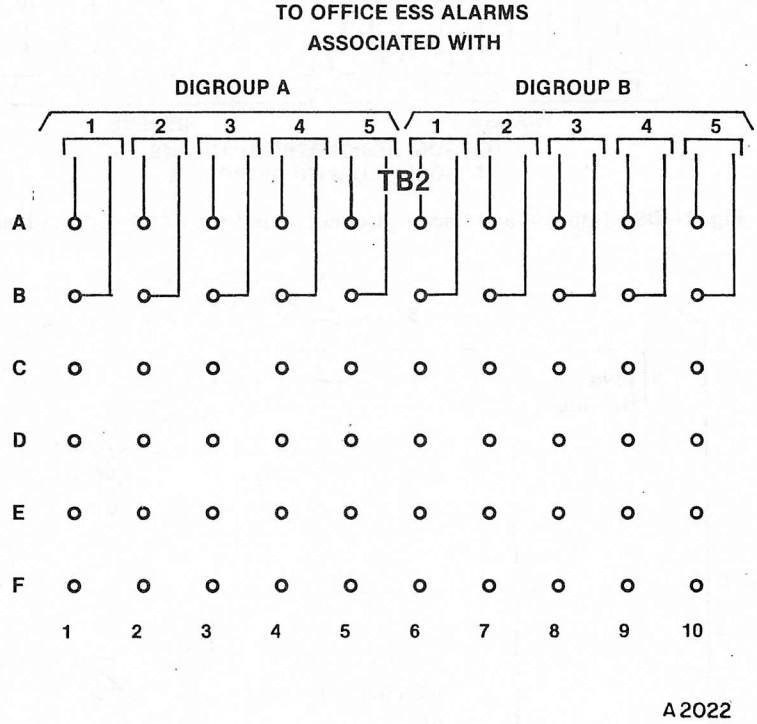

Fig. 6—ESS Alarm Connections from FADP to Office Alarms

CHART 4 (CONT)

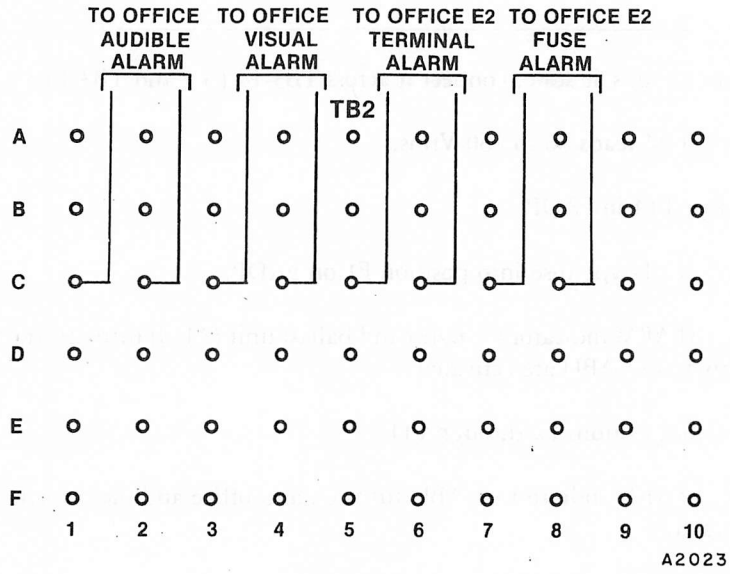

Fig. 7—Audible Alarm, Visual Alarm, E2 Terminal Alarm, and E2 Fuse Alarm Loop Connections from FADP to Office Alarm Connection Points

CHART 5

PRETEST

APPARATUS:

1—Volt-ohm meter (VOM) (WE KS-14510, Triplett 630, or equivalent)

1—Open GMT-type fuse

STEP	PROCEDURE
	Note: Refer to Section ITTR-18-406, Chart 5, for information on pretesting each individual multiplex shelf.
1	Install office fuse supplying – 48V office battery to FADP.
2	With VOM set to volts dc scale, connect it across TB4-2 (+) and TB4-1 (–).
	Requirement: VOM reads – 44 to – 56 Vdc.
3	Install office fuse supplying 20-Hz ringing or 20-Hz negative superimposed ringing to FADP.

CHART 5 (CONT)

STEP	PROCEDURE
4	With VOM set to volts ac scale, connect it across TB3-14 (+) and TB3-15 (−).
	Requirement: VOM reads 80 to 160 Vrms.
5	Install main fuse F14 in FADP.
6	Insert an open GMT-type fuse into position F1 on FADP.
	Requirement: ALARM indicator on alarm and ballast unit (ABU) turns on and office audible, visual, and fuse alarm contacts in ABU are activated.
7	Repeat Step 6 for positions F2 through F11.
	Requirement: ALARM indicator on ABU turns on and office audible, visual, and fuse alarm contacts in ABU are activated.
8	Install 1-1/3A GMT-type fuse (color code white) in position F12.
9	Install 1A GMT-type fuse (color code gray) in position F13.
10	Install 5A GMT-type fuse (color code blue) in position F11.
	Note: Do not install fuses in remaining positions F2 through F10 at this time. Fuses should be installed when power is needed for associated multiplex shelf, or when required, in the case of spare positions.